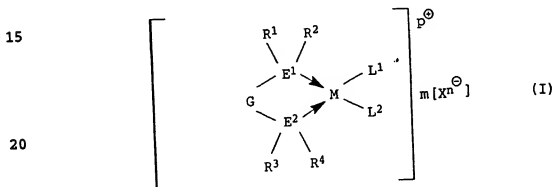


Catalyst systems based on transition metal complexes for carbon monoxide copolymerization in an aqueous medium

# 5 Abstract

Catalyst systems for the copolymerization of carbon monoxide and  $\alpha$ -olefinically unsaturated compounds contain, as essential components,

a) a metal complex of the formula (I)



where  $\text{R}^1$  to  $\text{R}^4$  are each linear or branched  $\text{C}_2$ - to  $\text{C}_{28}$ -alkyl,  $\text{C}_3$ - to  $\text{C}_{14}$ -cycloalkyl or alkylaryl where the alkyl moiety is of 1 to 28 carbon atoms and the aryl moiety is of 6 to 15 carbon atoms, each of which is substituted by at least one polar protic or ionic functional group based on elements of groups IVA to VIA of the Periodic Table of Elements, and

b) if required, one or more Lewis or protic acids or a mixture of Lewis and protic acids.

35

40

45